

W. Buchholz  
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W. Sieg

**Iterated Inductive Definitions and  
Subsystems of Analysis:  
Recent Proof-Theoretical Studies**

897



Springer

# Iterated Inductive Definitions And Subsystems Of Analysis

**Kurt Gödel**



## **Iterated Inductive Definitions And Subsystems Of Analysis:**

*Iterated Inductive Definitions and Subsystems of Analysis: Recent Proof-Theoretical Studies* W. Buchholz, S. Feferman, W. Pohlers, W. Sieg, 2006-11-14     Iterated Inductive Definitions and Subsystems of Analysis W. Buchholz, S. Feferman, W. Pohlers, 2014-01-15     Iterated Inductive Definitions and Subsystems of Analysis Wilfried Buchholz, 1981-01-01     **Wilfried Buchholz [u.a.] Iterated inductive definitions and subsystems of analysis**, 1981     *Iterated Inductive Definitions and Subsystems of Analysis, Recent Proof-theoretical Studies*, 1981     *Iterated Inductive Definitions and Subsystems of Analysis*, 1982     **Proof-theoretic Studies of Systems of Iterated Inductive Definitions and Subsystems of Analysis** Jeffery I. Zucker, 1971     Hilbert's Programs and Beyond Wilfried Sieg, 2013-03-07 David Hilbert was one of the great mathematicians who expounded the centrality of their subject in human thought In this collection of essays Wilfried Sieg frames Hilbert's foundational work from 1890 to 1939 in a comprehensive way and integrates it with modern proof theoretic investigations

**Axiomatic Thinking II** Fernando Ferreira, Reinhard Kahle, Giovanni Sommaruga, 2022-09-17 In this two volume compilation of articles leading researchers reevaluate the success of Hilbert's axiomatic method which not only laid the foundations for our understanding of modern mathematics but also found applications in physics computer science and elsewhere The title takes its name from David Hilbert's seminal talk *Axiomatisches Denken* given at a meeting of the Swiss Mathematical Society in Zurich in 1917 This marked the beginning of Hilbert's return to his foundational studies which ultimately resulted in the establishment of proof theory as a new branch in the emerging field of mathematical logic Hilbert also used the opportunity to bring Paul Bernays back to Göttingen as his main collaborator in foundational studies in the years to come The contributions are addressed to mathematical and philosophical logicians but also to philosophers of science as well as physicists and computer scientists with an interest in foundations     *Foundations: Logic, Language, and Mathematics* Hugues Leblanc, Elliott Mendelson, A. Orenstein, 2013-04-17 The more traditional approaches to the history and philosophy of science and technology continue as well and probably will continue as long as there are skillful practitioners such as Carl Hempel Ernest Nagel and their students Finally there are still other approaches that address some of the technical problems arising when we try to provide an account of belief and of rational choice These include efforts to provide logical frameworks within which we can make sense of these notions This series will attempt to bring together work from all of these approaches to the history and philosophy of science and technology in the belief that each has something to add to our understanding The volumes of this series have emerged either from lectures given by authors while they served as honorary visiting professors at the City College of New York or from conferences sponsored by that institution The City College Program in the History and Philosophy of Science and Technology oversees and directs these lectures and conferences with the financial aid of the Association for Philosophy of Science Psychotherapy and Ethics MARTIN TAMNY RAPHAEL STERN PREFACE The papers in this collection stem largely from the conference Foundations Logic Language and

Mathematics held at the Graduate Center of the City University of New York on 14-15 November 1980      Feferman on Foundations Gerhard Jäger, Wilfried Sieg, 2018-04-04 This volume honours the life and work of Solomon Feferman one of the most prominent mathematical logicians of the latter half of the 20th century In the collection of essays presented here researchers examine Feferman's work on mathematical as well as specific methodological and philosophical issues that tie into mathematics Feferman's work was largely based in mathematical logic namely model theory set theory proof theory and computability theory but also branched out into methodological and philosophical issues making it well known beyond the borders of the mathematics community With regard to methodological issues Feferman supported concrete projects On the one hand these projects calibrate the proof theoretic strength of subsystems of analysis and set theory and provide ways of overcoming the limitations imposed by Gödel's incompleteness theorems through appropriate conceptual expansions On the other they seek to identify novel axiomatic foundations for mathematical practice truth theories and category theory In his philosophical research Feferman explored questions such as What is logic and proposed particular positions regarding the foundations of mathematics including for example his conceptual structuralism The contributing authors of the volume examine all of the above issues Their papers are accompanied by an autobiography presented by Feferman that reflects on the evolution and intellectual contexts of his work The contributing authors critically examine Feferman's work and in part actively expand on his concrete mathematical projects The volume illuminates Feferman's distinctive work and in the process provides an enlightening perspective on the foundations of mathematics and logic      **Ways of Proof Theory** Ralf Schindler, 2013-05-02 On the occasion of the retirement of Wolfram Pohlers the Institut für Mathematische Logik und Grundlagenforschung of the University of Münster organized a colloquium and a workshop which took place July 17-19 2008 This event brought together proof theorists from many parts of the world who have been acting as teachers students and collaborators of Wolfram Pohlers and who have been shaping the field of proof theory over the years The present volume collects papers by the speakers of the colloquium and workshop and they produce a documentation of the state of the art of contemporary proof theory      **Logic, Methodology, and Philosophy of Science VI** Laurence Jonathan Cohen, 1982 *Logic Methodology and Philosophy of Science VI*      **The Bulletin of Symbolic Logic**, 2009      Logic, Methodology and Philosophy of Science, 1983      **Bollettino Della Unione Matematica Italiana**, 1985      **Unpublished essays and lectures** Kurt Gödel, 1986      Atti degli incontri di logica matematica: Siena, 5-8 gennaio 1983, 6-9 aprile 1983, 9-12 gennaio 1984, 25-28 aprile 1984, 1983      **Classical Recursion Theory** Piergiorgio Odifreddi, 1989 This second volume of the study of classical recursion theory describes the universe from a local bottom up or synthetical point of view and covers the whole spectrum from the recursive to the arithmetical sets The text ends with a treatment of the enumeration degrees      **Atti degli Incontri di logica matematica**,

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Iterated Inductive Definitions And Subsystems Of Analysis**

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